

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002114**Date Inspected:** 03-Apr-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:****Bridge No:** 34-0006**Component:** Tower and OBG Components**Bid Item:****Lot No:** B- 278**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance Inspector (QA) S. Manjunath. Math was present during the times noted above for observations relative to the work being performed.

Inspection for Surface Preparation and/or Coating Application.

Tower Components L-Splices Inspection Request No. T-301

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the Tower Components L-Splices at blasting workshop no. 2 for Blasting Surface Preparation before primer application at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's Surface Profile recorded as 72 to 84 microns after blasting and Caltrans QA concurred with the ABF QA's Inspection.

Please refer the pictures attached for more comprehensive details.

Splices Inspection Request No. T-302

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the Splices at Painting workshop no. 2 for Dry Film Thickness (DFT) Check 408 Pieces before Splices are packed and transported individually from ZPMC after accepting the DFT at Shanghai Zhenhua Port Machinery Co., Ltd.,

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(ZPMC).

Inspection Conclusions: Rejected by ABF QA's as not ready at designated time of Inspection and asked ZPMC to re-submit for inspection once ready and Caltrans QA concurred with the ABF QA's Inspection.

OBG External Surface Inspection Request No. 3068

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG External Surface Pre-Blast Fabrication Visual Inspection (Welding and Fabrication) Inspection and Residual Chlorides Test for Segment 9BW at blasting workshop no. 1 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Rejected as grinding is required at various locations and Residual Chloride Test performed by ZPMC QC's found the readings at higher side and readings recorded as 20 microns/cm (Side Panel Counter Weight Side), 30 microns/cm (at Bottom Panel), 80 microns/cm (at FL3 area) and 90 microns/cm (at FL3 area), re-wash recommended and asked ZPMC to submit Inspection request once ready and Caltrans QA concurred with the ABF QA's Inspection.

Please refer the pictures attached for more comprehensive details.

OBG External Surface Inspection Request No. 3069

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG External Surface for Surface Preparation, DFT Check, Residual Chloride (Salt Test) Test, MEK Test and Pencil Hardness Test for Segment 9AE at Painting workshop no. 2 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's as Residual Chloride Test result recorded as 20 microns/cm, 30 microns/cm and 30 microns/cm and at Four locations MEK/Pencil Test been performed and results recorded as Ok with Grade 5 and Caltrans QA concurred with the ABF QA's Inspection.

OBG External Surface Inspection Request No. 3070

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG External Surface Pre-Blast Fabrication Visual Inspection (Welding and Fabrication) Inspection and Residual Chlorides Test for Segment 9BW at blasting workshop no. 1 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

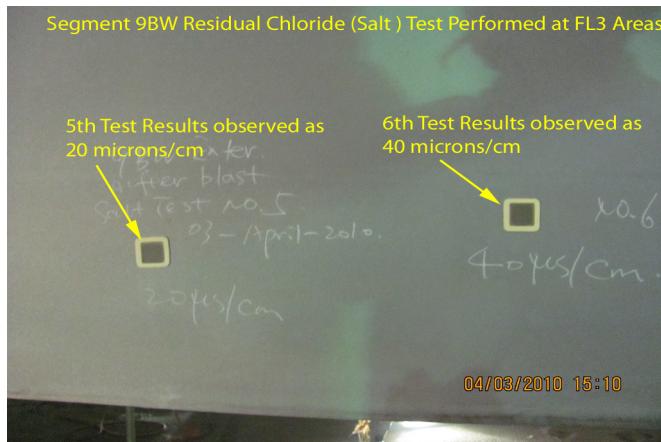
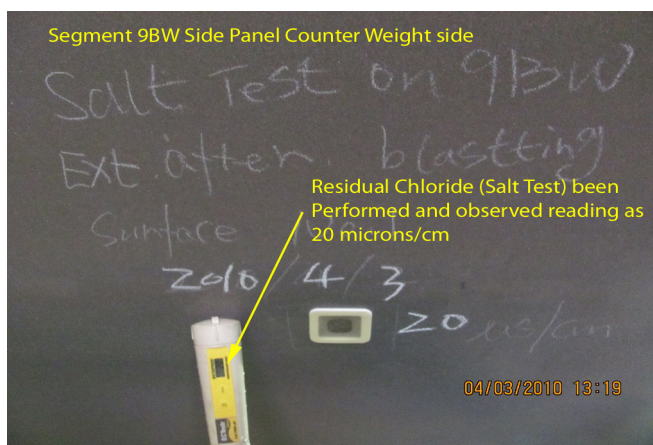
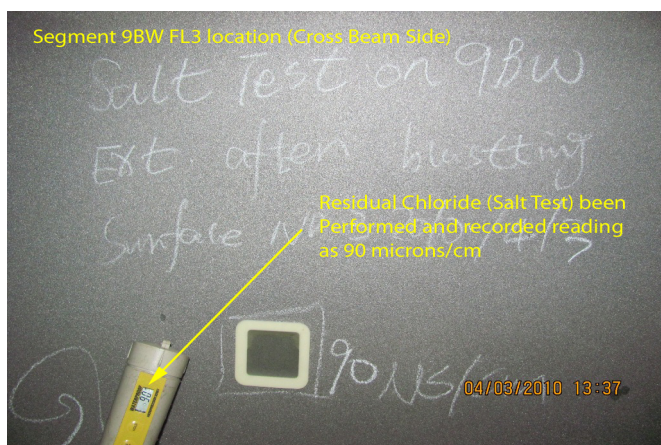
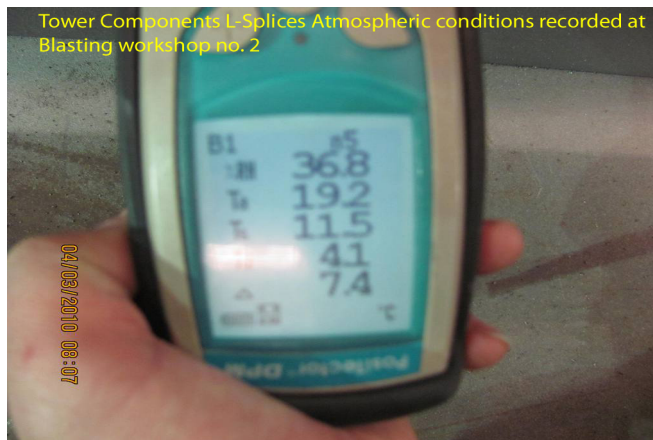
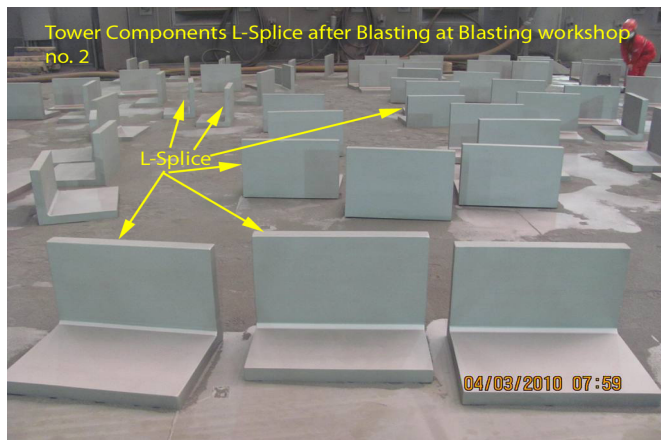
Inspection Conclusions: Accepted earlier rejected area against the Inspection Request No. 3068 Residual Chloride Test performed by ZPMC QC's and readings were found to be at higher side at FL3 area thus re-offered those locations and recorded as 20 microns/cm and 40 microns/cm and Surface Profile within the range of 69 to 79 microns and Caltrans QA concurred with the ABF QA's Inspection.

Please refer the pictures attached for more comprehensive details.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

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Summary of Conversations:

No Relevant Conversation

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric T Sang 1500-0042-2372, who represents the Office of Structural Materials for your project.

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Inspected By: Math,Manjunath

Quality Assurance Inspector

Reviewed By: Carreon,Albert

QA Reviewer